

# SAFETY DATA SHEET

## 1. Identification

**Product number** 1000028738  
**Product identifier** 11 OZ NAPA MAC'S STARTING FLUID 7212  
**Company information** NAPA Balkamp  
2601 S. Holt Road  
Indianapolis, IN 46241 United States  
**Company phone** General Assistance 1-317-244-7241  
**Emergency telephone US** 1-866-836-8855  
**Emergency telephone outside US** 1-952-852-4646  
**Version #** 01  
**Recommended use** Not available.  
**Recommended restrictions** None known.

## 2. Hazard(s) identification

**Physical hazards** Flammable aerosols Category 1  
**Health hazards** Acute toxicity, oral Category 4  
Skin corrosion/irritation Category 2  
Reproductive toxicity (fertility, the unborn child) Category 2  
Specific target organ toxicity, single exposure Category 3 narcotic effects  
Specific target organ toxicity, repeated exposure Category 2  
Aspiration hazard Category 1  
**OSHA defined hazards** Not classified.

### Label elements



**Signal word**

Danger

**Hazard statement**

Extremely flammable aerosol. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure.

**Precautionary statement**

**Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Supplemental information** None.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                            | Common name and synonyms | CAS number | %        |
|--|--------------------------|------------|----------|
| Diethyl Ether                            |                          | 60-29-7    | 40 - 60  |
| n-Hexane                                 |                          | 110-54-3   | 10 - 20  |
| Butylated Hydroxytoluene                 |                          | 128-37-0   | 2.5 - 10 |
| Carbon Dioxide                           |                          | 124-38-9   | 2.5 - 10 |
| n-Heptane                                |                          | 142-82-5   | 2.5 - 10 |
| Cyclohexane                              |                          | 110-82-7   | 0.1 - 1  |
| Toluene                                  |                          | 108-88-3   | 0.1 - 1  |
| Other components below reportable levels |                          |            | 20 - 40  |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

|   |   |
|---|---|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.   |
| <b>Skin contact</b>   | Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.   |
| <b>Eye contact</b>  | Rinse with water. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>  | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.  |
| <b>General information</b>  | IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. |

### 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Alcohol resistant foam. Powder. Carbon dioxide (CO <sub>2</sub> ).   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.  |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.   |
| <b>Fire fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.   |
| <b>General fire hazards</b>  | Extremely flammable aerosol.   |

### 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
|--|---|

**Methods and materials for containment and cleaning up**

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**7. Handling and storage**

**Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection**

**Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components                    | Type | Value                            |
|-------------------------------|------|----------------------------------|
| Carbon Dioxide (CAS 124-38-9) | PEL  | 9000 mg/m3                       |
| Cyclohexane (CAS 110-82-7)    | PEL  | 5000 ppm<br>1050 mg/m3           |
| Diethyl Ether (CAS 60-29-7)   | PEL  | 300 ppm<br>1200 mg/m3            |
| n-Heptane (CAS 142-82-5)      | PEL  | 400 ppm<br>2000 mg/m3            |
| n-Hexane (CAS 110-54-3)       | PEL  | 500 ppm<br>1800 mg/m3<br>500 ppm |

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

| Components             | Type    | Value   |
|------------------------|---------|---------|
| Toluene (CAS 108-88-3) | Ceiling | 300 ppm |
|                        | TWA     | 200 ppm |

**US. ACGIH Threshold Limit Values**

| Components                              | Type | Value     | Form                          |
|---|------|-----------|-------------------------------|
| Butylated Hydroxytoluene (CAS 128-37-0) | TWA  | 2 mg/m3   | Inhalable fraction and vapor. |
| Carbon Dioxide (CAS 124-38-9)           | STEL | 30000 ppm |                               |
| Cyclohexane (CAS 110-82-7)              | TWA  | 5000 ppm  |                               |
|   | TWA  | 100 ppm   |                               |

**US. ACGIH Threshold Limit Values**

| Components                  | Type | Value   | Form |
|-----------------------------|------|---------|------|
| Diethyl Ether (CAS 60-29-7) | STEL | 500 ppm |      |
|                             | TWA  | 400 ppm |      |
| n-Heptane (CAS 142-82-5)    | STEL | 500 ppm |      |
|                             | TWA  | 400 ppm |      |
| n-Hexane (CAS 110-54-3)     | TWA  | 50 ppm  |      |
| Toluene (CAS 108-88-3)      | TWA  | 20 ppm  |      |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                              | Type    | Value                   |
|---|---------|-------------------------|
| Butylated Hydroxytoluene (CAS 128-37-0) | TWA     | 10 mg/m3                |
| Carbon Dioxide (CAS 124-38-9)           | STEL    | 54000 mg/m3             |
|   | TWA     | 30000 ppm<br>9000 mg/m3 |
| Cyclohexane (CAS 110-82-7)              | TWA     | 5000 ppm<br>1050 mg/m3  |
|   | Ceiling | 300 ppm                 |
| n-Heptane (CAS 142-82-5)                | TWA     | 1800 mg/m3<br>440 ppm   |
|   | TWA     | 350 mg/m3<br>85 ppm     |
| n-Hexane (CAS 110-54-3)                 | TWA     | 180 mg/m3<br>50 ppm     |
|   | STEL    | 560 mg/m3<br>150 ppm    |
| Toluene (CAS 108-88-3)                  | TWA     | 375 mg/m3<br>100 ppm    |

**Biological limit values****ACGIH Biological Exposure Indices**

| Components              | Value     | Determinant                         | Specimen            | Sampling Time |
|-------------------------|-----------|-------------------------------------|---------------------|---------------|
| n-Hexane (CAS 110-54-3) | 0.4 mg/l  | 2,5-Hexanedio n, without hydrolysis | Urine               | *             |
| Toluene (CAS 108-88-3)  | 0.3 mg/g  | o-Cresol, with hydrolysis           | Creatinine in urine | *             |
|                         | 0.03 mg/l | Toluene                             | Urine               | *             |
|                         | 0.02 mg/l | Toluene                             | Blood               | *             |

\* - For sampling details, please see the source document.

**Exposure guidelines****US - California OELs: Skin designation**

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

Toluene (CAS 108-88-3)

Skin designation applies.

**US ACGIH Threshold Limit Values: Skin designation**

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

|                                       |  |
|---------------------------------------|--|
| <b>Skin protection</b>                |  |
| <b>Hand protection</b>                | Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.  |
| <b>Other</b>                          | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.   |
| <b>Respiratory protection</b>         | If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.  |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.  |
| <b>General hygiene considerations</b> | Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## 9. Physical and chemical properties

### Appearance

|   |                                |
|---|--------------------------------|
| <b>Physical state</b>                               | Gas.                           |
| <b>Form</b>   | Aerosol.                       |
| <b>Color</b>  | Not available.                 |
| <b>Odor</b>   | Not available.                 |
| <b>Odor threshold</b>                               | Not available.                 |
| <b>pH</b>   | Not available.                 |
| <b>Melting point/freezing point</b>                 | Not available.                 |
| <b>Initial boiling point and boiling range</b>      | -109.3 °F (-78.5 °C) estimated |
| <b>Flash point</b>                                  | -19.2 °F (-28.5 °C) estimated  |
| <b>Evaporation rate</b>                             | Not available.                 |
| <b>Flammability (solid, gas)</b>                    | Not available.                 |
| <b>Upper/lower flammability or explosive limits</b> |                                |
| <b>Flammability limit - lower (%)</b>               | 1.2 % estimated                |
| <b>Flammability limit - upper (%)</b>               | 7.1 % estimated                |
| <b>Explosive limit - lower (%)</b>                  | Not available.                 |
| <b>Explosive limit - upper (%)</b>                  | Not available.                 |
| <b>Vapor pressure</b>                               | Not available.                 |
| <b>Vapor density</b>                                | Not available.                 |
| <b>Relative density</b>                             | Not available.                 |
| <b>Solubility(ies)</b>                              |                                |
| <b>Solubility (water)</b>                           | Not available.                 |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                 |
| <b>Auto-ignition temperature</b>                    | 564.8 °F (296 °C) estimated    |
| <b>Decomposition temperature</b>                    | Not available.                 |
| <b>Viscosity</b>                                    | Not available.                 |
| <b>Other information</b>                            |                                |
| <b>Explosive properties</b>                         | Not explosive.                 |
| <b>Oxidizing properties</b>                         | Not oxidizing.                 |
| <b>Specific gravity</b>                             | 0.375 estimated                |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |

|   |  |
|---|--|
| <b>Conditions to avoid</b>              | Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>           | Strong oxidizing agents.   |
| <b>Hazardous decomposition products</b> | No hazardous decomposition products are known.                                     |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. |
| <b>Skin contact</b> | Causes skin irritation.  |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.   |
| <b>Ingestion</b>    | Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.     |

|   |  |
|---|--|
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain. |
|---|--|

### Information on toxicological effects

|                       |   |
|-----------------------|---|
| <b>Acute toxicity</b> | May be fatal if swallowed and enters airways. Narcotic effects. |
|-----------------------|---|

| Components                              | Species | Test Results   |
|---|---------|--|
| Butylated Hydroxytoluene (CAS 128-37-0) |         |  |
| <b>Acute</b>                            |         |  |
| <b>Dermal</b>                           |         |  |
| LD50                                    | Rat     | > 2000 mg/kg<br>> 2000 mg/kg, 4 wk (3 x/wk)                |
| <b>Oral</b>                             |         |  |
| LD50                                    | Mouse   | 2000 mg/kg   |
|   | Rat     | > 2930 mg/kg   |
| Cyclohexane (CAS 110-82-7)              |         |  |
| <b>Acute</b>                            |         |  |
| <b>Dermal</b>                           |         |  |
| LD50                                    | Rabbit  | > 2000 mg/kg   |
| <b>Inhalation</b>                       |         |  |
| LC50                                    | Rat     | > 32880 mg/m <sup>3</sup> , 4 Hours<br>> 5540 ppm, 4 Hours |
| <b>Oral</b>                             |         |  |
| LD50                                    | Rabbit  | > 5000 mg/kg   |
|   | Rat     | > 5000 mg/kg   |
| Diethyl Ether (CAS 60-29-7)             |         |  |
| <b>Acute</b>                            |         |  |
| <b>Dermal</b>                           |         |  |
| LD50                                    | Rabbit  | > 20000 mg/kg, 24 Hours                                    |
| <b>Inhalation</b>                       |         |  |
| LC50                                    | Mouse   | 31300 ppm, 90 Minutes                                      |
|   | Rat     | 32000 ppm, 4 Hours   |
| <b>Oral</b>                             |         |  |
| LD50                                    | Rat     | 1200 mg/kg   |
| n-Heptane (CAS 142-82-5)                |         |  |
| <b>Acute</b>                            |         |  |
| <b>Dermal</b>                           |         |  |
| LD50                                    | Rabbit  | > 2000 mg/kg, 24 Hours                                     |
| <b>Inhalation</b>                       |         |  |
| LC50                                    | Rat     | > 29.29 mg/l, 4 Hours                                      |

| Components              | Species | Test Results   |
|-------------------------|---------|--|
| <b>Oral</b><br>LD50     | Rat     | > 5000 mg/kg   |
| n-Hexane (CAS 110-54-3) |         |  |
| <b>Acute</b>            |         |  |
| <b>Dermal</b><br>LD50   | Rabbit  | > 2000 mg/kg, 4 Hours<br>> 5 ml/kg, 4 Hours                |
| <b>Inhalation</b>       |         |  |
| LC50                    | Rat     | > 5000 ppm, 24 Hours<br>> 31.86 mg/l<br>73860 ppm, 4 Hours |
| <b>Oral</b><br>LD50     | Rat     | 24 g/kg<br>24 ml/kg  |
| Toluene (CAS 108-88-3)  |         |  |
| <b>Acute</b>            |         |  |
| <b>Dermal</b><br>LD50   | Rabbit  | > 5000 mg/kg, 24 Hours                                     |
| <b>Inhalation</b>       |         |  |
| LC50                    | Mouse   | 6405 - 7436 ppm, 6 Hours<br>5320 ppm, 8 Hours              |
|                         | Rat     | 5879 - 6281 ppm, 6 Hours<br>25.7 mg/l, 4 Hours             |
| <b>Oral</b><br>LD50     | Rat     | > 5000 mg/kg   |

\* Estimates for product may be based on additional component data not shown.

|   |   |
|---|---|
| <b>Skin corrosion/irritation</b>                                      | Causes skin irritation.   |
| <b>Serious eye damage/eye irritation</b>                              | Direct contact with eyes may cause temporary irritation.  |
| <b>Respiratory or skin sensitization</b>                              |   |
| <b>Respiratory sensitization</b>                                      | Not a respiratory sensitizer.   |
| <b>Skin sensitization</b>   | This product is not expected to cause skin sensitization.   |
| <b>Germ cell mutagenicity</b>   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.                                      |
| <b>Carcinogenicity</b>  | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.   |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>         |   |
| Butylated Hydroxytoluene (CAS 128-37-0)                               | 3 Not classifiable as to carcinogenicity to humans.   |
| Toluene (CAS 108-88-3)  | 3 Not classifiable as to carcinogenicity to humans.   |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> |   |
| Not listed.   |   |
| <b>US. National Toxicology Program (NTP) Report on Carcinogens</b>    |   |
| Not available.  |   |
| <b>Reproductive toxicity</b>  | Suspected of damaging fertility. Suspected of damaging the unborn child.  |
| <b>Specific target organ toxicity - single exposure</b>               | May cause drowsiness and dizziness.   |
| <b>Specific target organ toxicity - repeated exposure</b>             | Respiratory system. Skin. Central nervous system. Eyes. Peripheral nervous system. May cause damage to organs through prolonged or repeated exposure. |
| <b>Aspiration hazard</b>  | May be fatal if swallowed and enters airways.   |
| <b>Chronic effects</b>  | May cause damage to organs through prolonged or repeated exposure.  |

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Components                              |      | Species  | Test Results                 |
|---|------|--|------------------------------|
| Butylated Hydroxytoluene (CAS 128-37-0) |      |  |                              |
| <b>Aquatic</b>                          |      |  |                              |
| Algae                                   | IC50 | Algae  | 6 mg/L, 72 Hours             |
| Crustacea                               | EC50 | Water flea (Daphnia pulex)                       | 1.44 mg/l, 48 hours          |
| Cyclohexane (CAS 110-82-7)              |      |  |                              |
| <b>Aquatic</b>                          |      |  |                              |
| Fish                                    | LC50 | Fathead minnow (Pimephales promelas)             | 23.03 - 42.07 mg/l, 96 hours |
| Diethyl Ether (CAS 60-29-7)             |      |  |                              |
| <b>Aquatic</b>                          |      |  |                              |
| Fish                                    | LC50 | Fathead minnow (Pimephales promelas)             | 2560 mg/l, 96 hours          |
| n-Heptane (CAS 142-82-5)                |      |  |                              |
| <b>Aquatic</b>                          |      |  |                              |
| Fish                                    | LC50 | Mozambique tilapia (Tilapia mossambica)          | 375 mg/l, 96 hours           |
| n-Hexane (CAS 110-54-3)                 |      |  |                              |
| <b>Aquatic</b>                          |      |  |                              |
| Fish                                    | LC50 | Fathead minnow (Pimephales promelas)             | 2.101 - 2.981 mg/l, 96 hours |
| Toluene (CAS 108-88-3)                  |      |  |                              |
| <b>Aquatic</b>                          |      |  |                              |
| Algae                                   | IC50 | Algae  | 433.0001 mg/L, 72 Hours      |
| Crustacea                               | EC50 | Daphnia  | 7.645 mg/L, 48 Hours         |
|   |      | Water flea (Daphnia magna)                       | 5.46 - 9.83 mg/l, 48 hours   |
| Fish                                    | LC50 | Coho salmon,silver salmon (Oncorhynchus kisutch) | 8.11 mg/l, 96 hours          |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)

|               |      |
|---------------|------|
| Cyclohexane   | 3.44 |
| Diethyl Ether | 0.89 |
| n-Heptane     | 4.66 |
| n-Hexane      | 3.9  |
| Toluene       | 2.73 |

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).



**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

**14. Transport information****DOT**

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1950  |
| <b>UN proper shipping name</b>      | Aerosols, flammable, (each not exceeding 1 L capacity)  |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 2.1   |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 2.1   |
| <b>Packing group</b>                | Not applicable.   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |
| <b>Special provisions</b>           | N82   |
| <b>Packaging exceptions</b>         | 306   |
| <b>Packaging non bulk</b>           | None  |
| <b>Packaging bulk</b>               | None  |

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**IATA**

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1950  |
| <b>UN proper shipping name</b>      | Aerosols, flammable   |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 2.1   |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 2.1   |
| <b>Packing group</b>                | Not applicable.   |
| <b>Environmental hazards</b>        | Yes   |
| <b>ERG Code</b>                     | 10L   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other information</b>            |   |
| <b>Passenger and cargo aircraft</b> | Allowed with restrictions.  |
| <b>Cargo aircraft only</b>          | Allowed with restrictions.  |
| <b>Packaging Exceptions</b>         | LTD QTY   |

**IMDG**

|   |   |
|---|---|
| <b>UN number</b>  | UN1950  |
| <b>UN proper shipping name</b>  | AEROSOLS  |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>  | 2.1   |
| <b>Subsidiary risk</b>  | -   |
| <b>Label(s)</b>   | 2.1   |
| <b>Packing group</b>  | Not applicable.   |
| <b>Environmental hazards</b>  |   |
| <b>Marine pollutant</b>   | Yes   |
| <b>EmS</b>  | F-D, S-U  |
| <b>Special precautions for user</b>   | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |
| <b>Packaging Exceptions</b>   | LTD QTY   |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable.   |

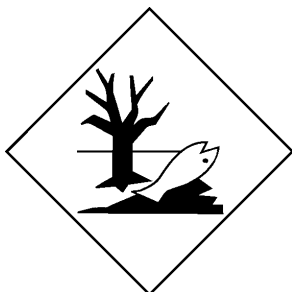
DOT



IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

## 15. Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

|                             |         |
|-----------------------------|---------|
| Cyclohexane (CAS 110-82-7)  | Listed. |
| Diethyl Ether (CAS 60-29-7) | Listed. |
| n-Hexane (CAS 110-54-3)     | Listed. |
| Toluene (CAS 108-88-3)      | Listed. |

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| n-Hexane      | 110-54-3   | 10 - 20  |
| Cyclohexane   | 110-82-7   | 0.1 - 1  |
| Toluene       | 108-88-3   | 0.1 - 1  |

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

n-Hexane (CAS 110-54-3)  
Toluene (CAS 108-88-3)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Diethyl Ether (CAS 60-29-7)

**Safe Drinking Water Act (SDWA)** Not regulated.**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Diethyl Ether (CAS 60-29-7) 6584  
Toluene (CAS 108-88-3) 6594

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Diethyl Ether (CAS 60-29-7) 35 %WV  
Toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

Diethyl Ether (CAS 60-29-7) 6584  
Toluene (CAS 108-88-3) 594

**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

n-Hexane (CAS 110-54-3)  
Toluene (CAS 108-88-3)

**US. Massachusetts RTK - Substance List**

Butylated Hydroxytoluene (CAS 128-37-0)  
Carbon Dioxide (CAS 124-38-9)  
Cyclohexane (CAS 110-82-7)  
Diethyl Ether (CAS 60-29-7)  
n-Heptane (CAS 142-82-5)  
n-Hexane (CAS 110-54-3)  
Toluene (CAS 108-88-3)

**US. New Jersey Worker and Community Right-to-Know Act**

Butylated Hydroxytoluene (CAS 128-37-0)  
Carbon Dioxide (CAS 124-38-9)  
Cyclohexane (CAS 110-82-7)  
Diethyl Ether (CAS 60-29-7)  
n-Heptane (CAS 142-82-5)  
n-Hexane (CAS 110-54-3)  
Toluene (CAS 108-88-3)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Butylated Hydroxytoluene (CAS 128-37-0)  
Carbon Dioxide (CAS 124-38-9)  
Cyclohexane (CAS 110-82-7)  
Diethyl Ether (CAS 60-29-7)  
n-Heptane (CAS 142-82-5)  
n-Hexane (CAS 110-54-3)  
Toluene (CAS 108-88-3)

**US. Rhode Island RTK**

Cyclohexane (CAS 110-82-7)  
Diethyl Ether (CAS 60-29-7)  
n-Hexane (CAS 110-54-3)  
Toluene (CAS 108-88-3)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**US - California Proposition 65 - CRT: Listed date/Developmental toxin**

Toluene (CAS 108-88-3)

Listed: January 1, 1991

**International Inventories**

| <b>Country(s) or region</b> | <b>Inventory name</b>  | <b>On inventory (yes/no)*</b> |
|-----------------------------|--|-------------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                           |
| Canada                      | Domestic Substances List (DSL)   | Yes                           |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                            |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                           |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                           |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                            |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                            |
| Korea                       | Existing Chemicals List (ECL)  | Yes                           |
| New Zealand                 | New Zealand Inventory  | No                            |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                           |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                           |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision****Issue date** 02-10-2016**Version #** 01

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Revision information** Product and Company Identification: Alternate Trade Names